

IN THE ABSTRACT:

Replace the abstract originally provided on the cover sheet of the PCT application with the following new abstract. A new abstract numbered page 32 is enclosed for the last page of the application following the claims.

ABSTRACT OF THE DISCLOSURE

An expandable bladder has at least one first layer of a natural or synthetic rubber-based material or a mixture thereof, and one second layer of silicone material, radially external to the first layer. The first and second layers have an undulated interface profile defining mechanical-engagement elements between the first and second elastomer materials. A process for manufacturing a bladder as well as a tyre manufacturing apparatus incorporating bladders is also disclosed.